

**Shuttle Vector pMCSU7 for Gene Expression in *Mycobacterium tuberculosis* and *Escherichia coli*****Catalog No. NR-13408**

This reagent is the tangible property of the U.S. Government.

**Product Description:** pMCSU7 is a shuttle vector that can be used for gene expression in either *Escherichia coli* or *Mycobacterium tuberculosis*. The pMCSU7 vector contains origins of replication for both organisms, *Escherichia coli* bacteriophage  $\lambda$  *attR* sites, a *Streptomyces coelicolor* tetracycline operator sequence, as well as the genes that confer resistance to kanamycin (Km) and chloramphenicol (Cm).

**Lot: 59310226****Manufacturing Date: 30JUN2010**

QC testing was performed by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH). The Colorado State University documentation is attached.

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## Recombinant Plasmid Quality Control Record

Plasmid designation pMCSU7

BEI Product Item Number NR-13408

BEI Lot Number 59310226

CSU Lot Number 10.pMCSU7.6.30

Notebook/Pgs Notebook #5; Page 23 (NKG)

Notebook detail \_\_\_\_\_

Media used LB

Culture size 250 mL

Growth conditions: Temp 37 Time 18 hrs Shaker speed 200

Plasmid prep type (mini/maxi, kit name or protocol) Qiagen HiSpeed Plasmid Midi Kit (Cat. No. 12643)

Plasmid prep detail: Midi prep Qia100 tip and elution conditions

Strain used to produce plasmid .ccdB

*E. coli* ori? Y/N Y

Contains Mycobacterial ori? Y/N Y

Final concentration 107.83 ng/μL

Total Stocks 72

Buffer TE

Method used for quantifying nanodrop

QC gel – N/A (no insert)

Restriction enzymes used in QC analysis N/A

Expected size of restriction fragments

Vector N/A

Insert N/A

Other N/A

Gel description file number, % agarose, buffer N/A

Recombination site/region confirmed by sequencing: Y

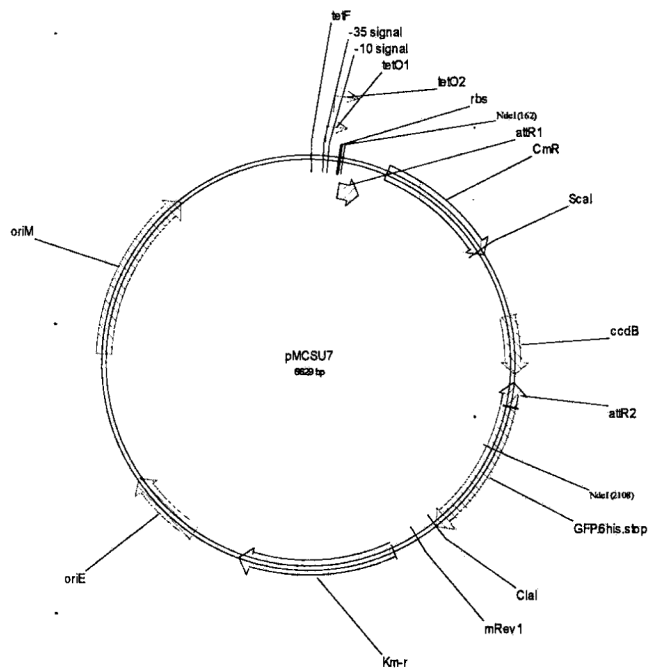
Note: Sequencing was performed with two primers –

1 tetF Primer sequence 5' TGGCATCCGTGGCGCGGC 3'

2. mRev1 Primer sequence 5' GACGTCAGGTGGCTAGCT 3'

Sequence files: CSU7R Date: 7/10/10  
CSU7F2 Date: 7/14/10

Plasmid Map:



Generated by Nicholas May Date 8/19/10

Supervisor no ker g Date 8/20/10

Form 4.2.09.KMD